



Washington State Department of Transportation



American Public Works Association
Washington State Chapter

Technical Commentary for Standard Plan B-1z Miscellaneous Details for Manholes and Catch Basins

General Information

Background: On February 7, 1997, information from Standard Plan B-24 (Miscellaneous Manhole Details) was combined with information from the old version of B-1z (Miscellaneous Catch Basin Details) to form the new Standard Plan B-1z, Miscellaneous Details for Manholes and Catch Basins. The new version of B-1z provides details for the B-1 series of catch basins, the B-23 series of manholes, and B-26.

Flat Slab Tops: The flat slab tops are shown with three possible opening configurations. The rectangular opening is used in catch basin applications when a B-2 series frame and grate is specified. The smaller circular opening is used in either catch basin or manhole applications when a B-25 ring and cover is specified. The larger circular opening is used in applications where the diameter of the catch basin or manhole decreases at some height above the pipe inverts. This configuration is shown on B-23b.

Adjustment Sections: The adjustment sections are placed on top of the catch basin or manhole and are used to establish the final grade elevation of the frame and grate or ring and cover.

Eccentric Cone Sections: The cone sections are used to transition a manhole or catch basin riser section to the diameter necessary to accept a ring and cover. Cone sections are available with either a concentric or eccentric shape, but the eccentric shape must be specified when it is necessary to provide access into the structure.

Ladders and Steps: The specifications and requirements for ladders and steps are described in AASHTO M 199.

Applicable Specifications

7-05	Manholes, Inlets, and Catch Basins
9-04.3	Joint Mortar
9-05.15(1)	Manhole Ring and Cover
9-05.15(2)	Metal Frame, Grate and Solid Metal Cover for Catch Basins or Inlets
9-12.4	Precast Concrete Manholes
9-12.5	Precast Concrete Catch Basin

Referenced Standard Plans

B-1 Series	Catch Basins
B-2 Series	Metal Covers and Frames and Grates
B-23 Series	Manholes
B-25	Manhole Ring and Cover
B-26	Concrete Inlet

Other Information

This commentary sheet is maintained by the Olympia Service Center Hydraulics Branch. Please send any suggestions for additions or modifications to :

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